TELESTAR 97TA012B

MODEL

SERVICE MANUAL

FOR SECAM L/L'
FUR SECAM L/L'

VHF-I

TU01
WSPTUNER

I301
CTV322S (MONO)
CTV352S (STEREO)

I302
PCF8582

I402
TDA7057AQ
STEREO

I101
TDA8362
(PAL/SECAM)
TDA8361 (PAL)

I1
TDA4605

I2
L7805

I3
LM317

I4
L7808

TR2

S301

S303

S651

S652

S653

21PIN

SW10
GDE.S-40

S1
DEGAUSS

S2
2.5H

S3
SAT

F101
3.15A/250V

F103
6.5MHZ

SW-SND

B/G SOUND & MOD.
POLARITY SWITCH
FOR MONO SECAM L/L'

B/G SOUND UND MOD.
POLARITAT SCHALTER
FUR MONO SECAM L/L'

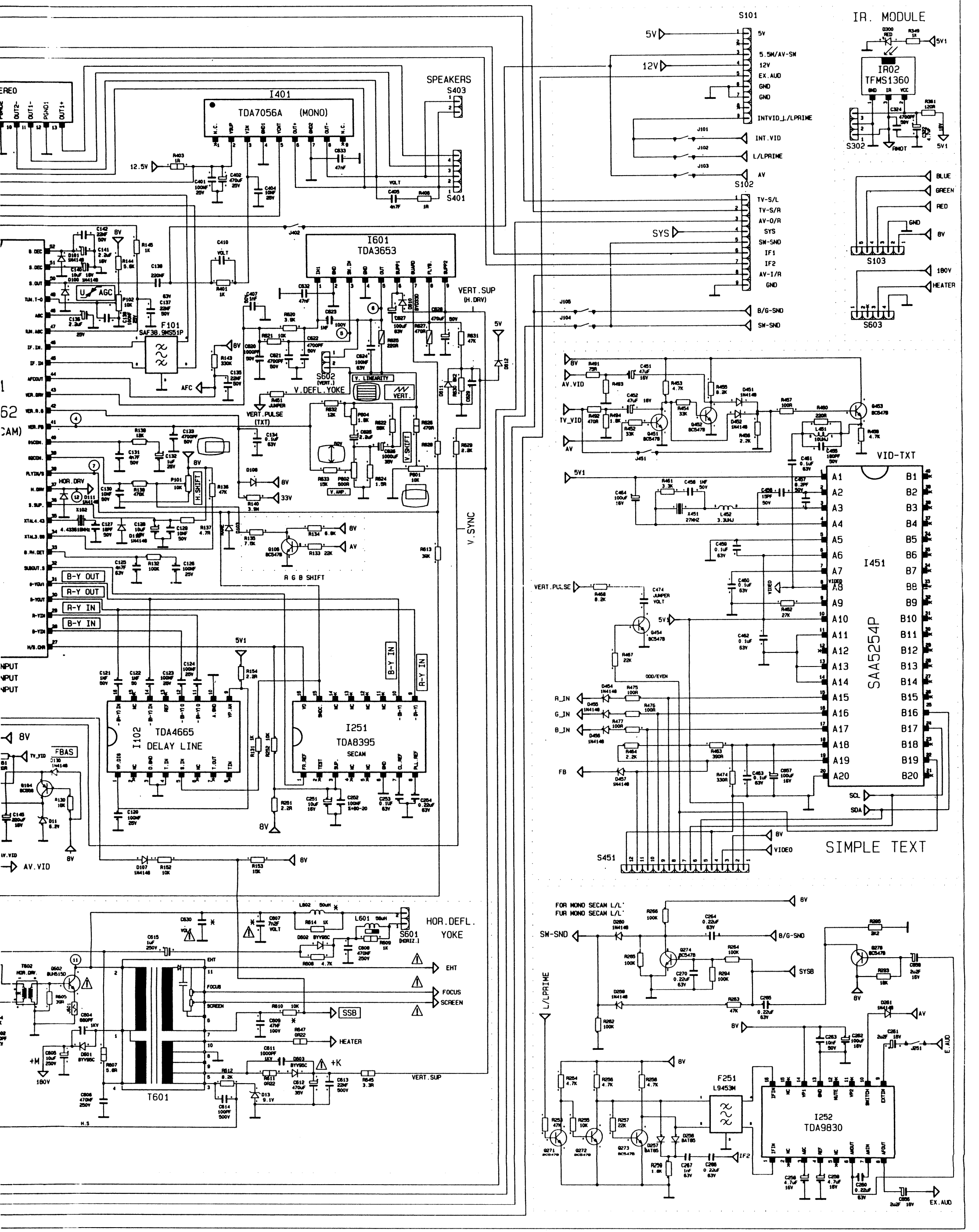
THE SERVICE INFORMATION FOR SAFETY
WHEN SERVICING THIS AREA. CONNECT
AN ISOLATING TRANSFORMER BETWEEN
TV RECEIVER AND AC LINE TO
ELIMINATE HAZARD OF ELECTRIC SHOCK.

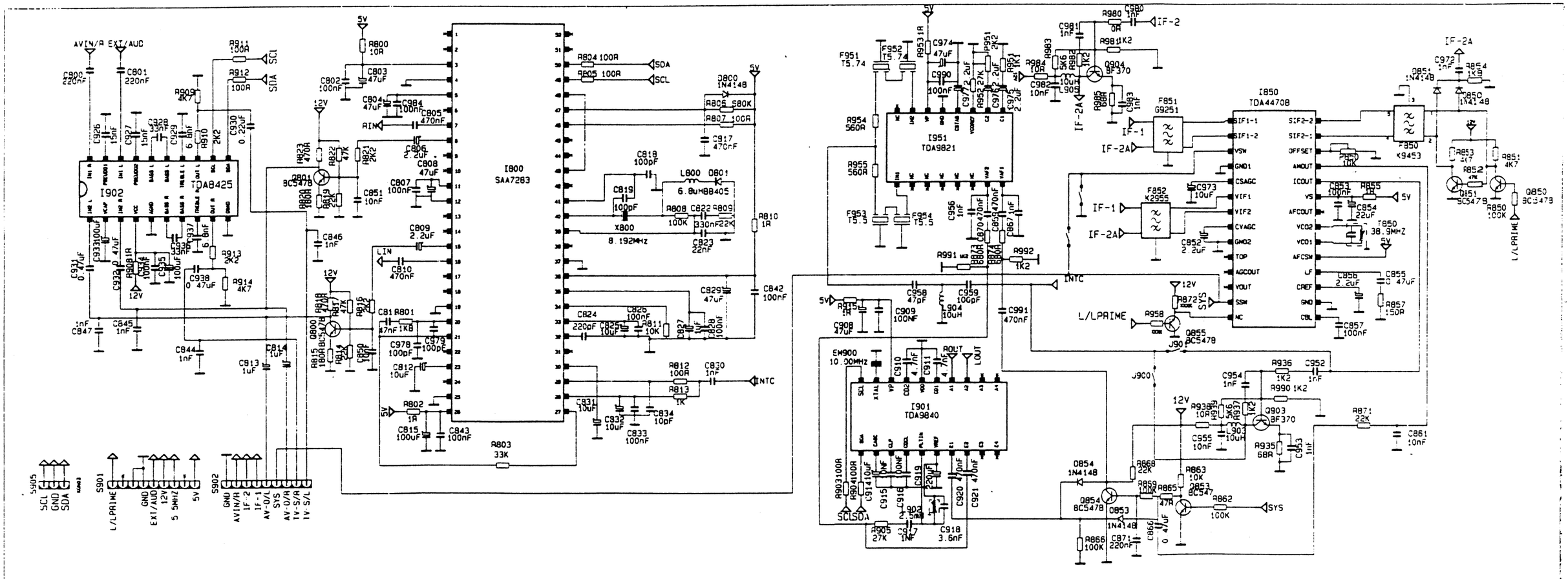
SERVICE INFORMATION FUR SICHERHEIT
WAHREND REPARATUR VON DIESEN GEBIET
IS EIN TRANSFORMATOR ZU VERWENDEN DER
DEN TV-EMPFANGER VON DEN NETZSTROM
TRENNT DAMIT KONNEN SIE ELEKTRISCHEN
SCHOCK VERMEIDEN.

115V +B
+D 33V
+C 8V
+A 12V
STDBY
+E 16V
+F 5V
+G 12.5V
+M 180V

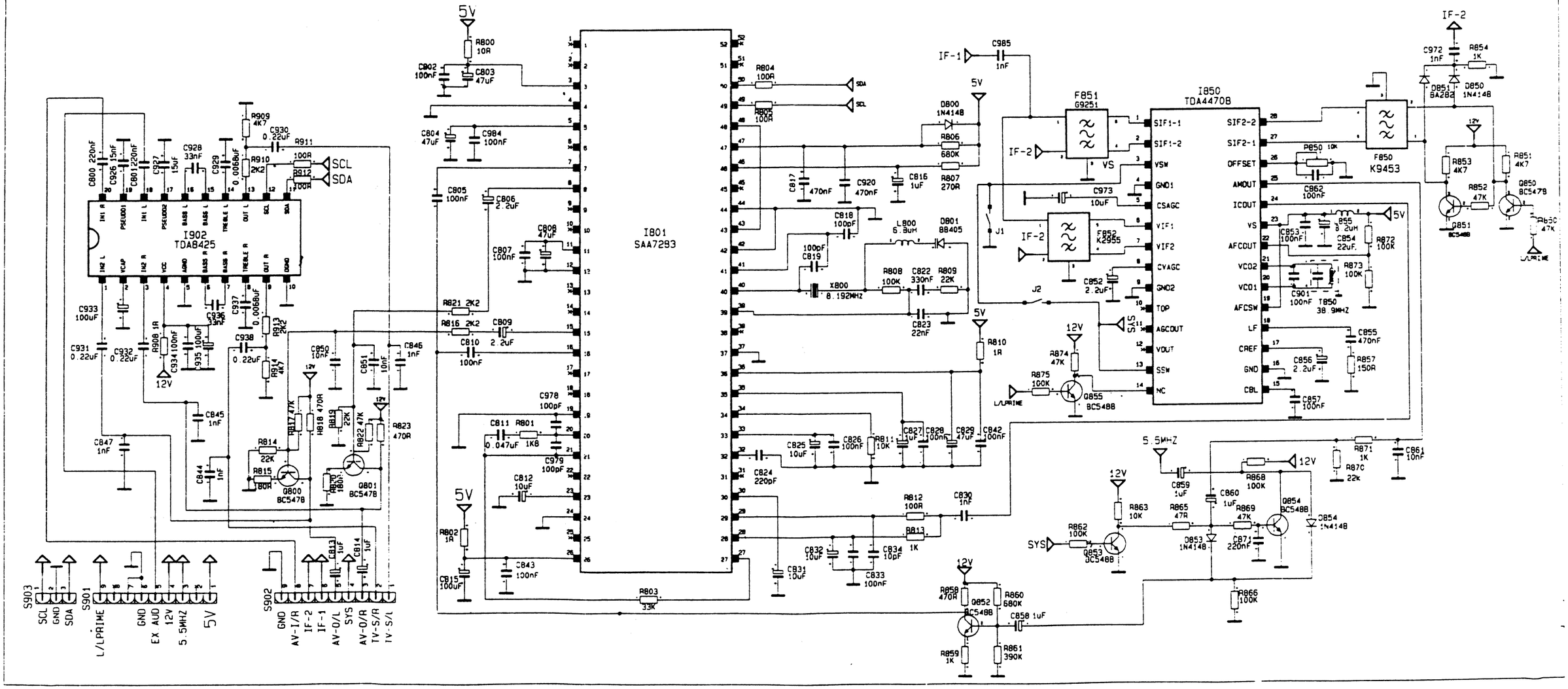
R_INPUT
G_INPUT
B_INPUT

AV-O/R
AV-O/L
AV-I/R
EX.AUD

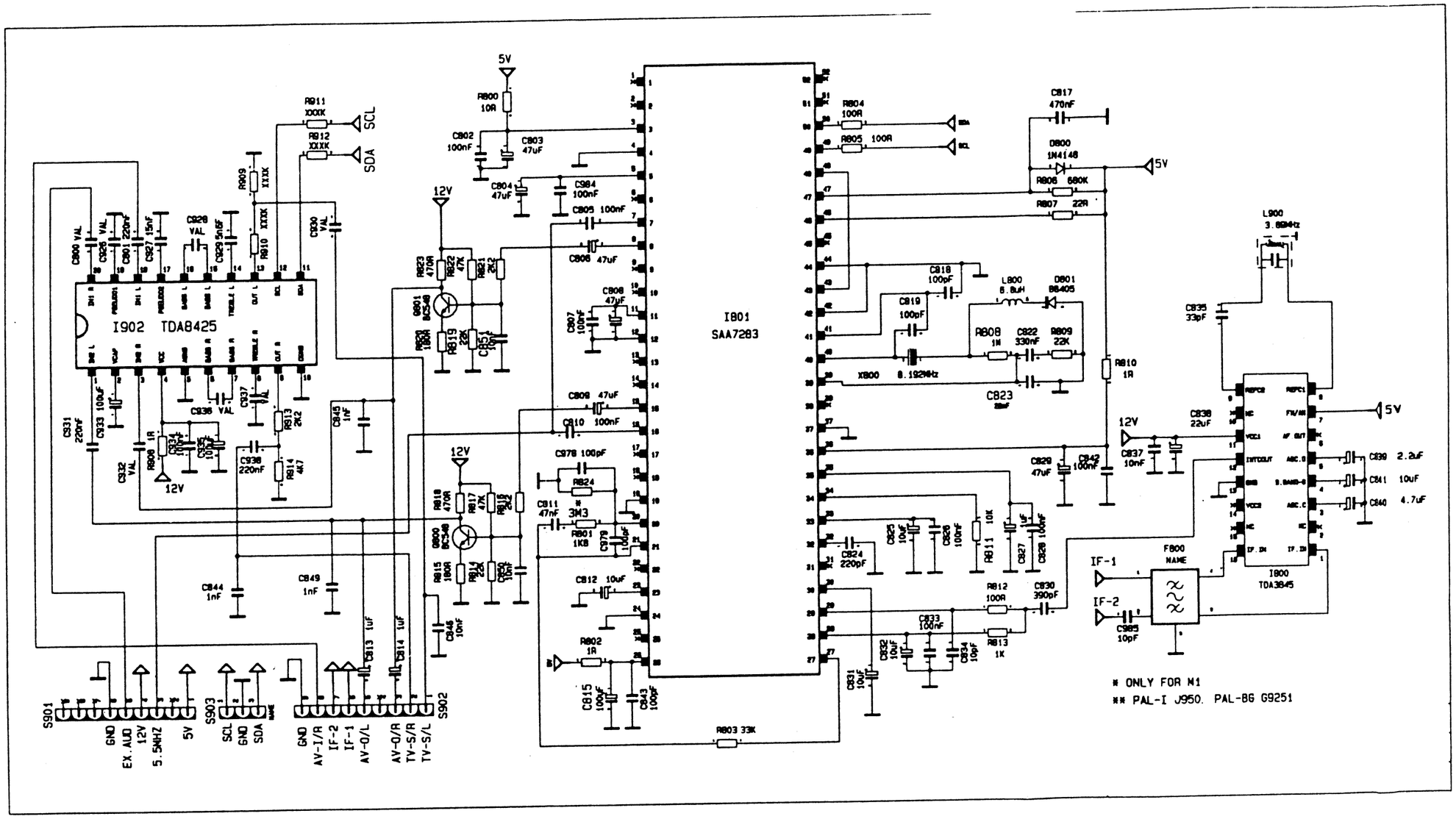

S101
5V
12V
5.5M/AV-SW
12V
EX.AUD
GND
GND
INTVID_L/LPRIME
J101
INT.VID
J102
L/LPRIME
J103
AV
S102
TV-S/L
TV-S/R
AV-O/R
SYS
SW-SND
IF1
IF2
AV-I/R
GND
SYS
J105
J104
B/G-SND
SW-SND
IR. MODULE
D300 RED
R349 1K
5V1
IR02
TFMS1360
GND IR VCC
C324
R361 120R
4700PF 50V
4.7UF 16V
S302
AMOT
5V1
BLUE
GREEN
RED
GND
8V
S103
180V
HEATER
S603
SPEAKERS
S403
S401
I401
TDA7056A (MONO)
N.C. VSUP VIN GND1 VOUT OUT+ GND2 OUT- N.C.
12.5V
R403 1R
C401 100NF 25V
C402 470uF 25V
C404 10NF 25V
C833 47nF
VOLT
C405 4n7F
R406 1R
EREO
OUT2- OUT1- PGND1 OUT1+
J402
I601
TDA3653
IN1 GND SW.IN GND OUT SUPP1 GUARD FLYB. SUPP2
C832 47nF
C823 1NF 100V
C827 100uF 63V
D610 BYD33D
C828 470uF 50V
R827 470R
R831 47K
R825 220R
VERT.SUP
(H.DRV)
5V
D612
C407 1NF 50V
R820 3.9K
R821 10K
C822 4700PF 50V
C820 1000PF 50V
C821 4700PF 50V
C824 100NF 63V
S602
(VERT.)
V.DEFL.YOKE
V. LINEARITY
VERT.
R451 JUMPER
VERT.PULSE (TXT)
R832 12K
P804 1.8K
R822 68K
C825 2.2uF
C826 1000uF 35V
V.SHIFT
R826 470R
R828
R829 2.2K
D611
R830 2K2
C829
R833 15K
P802 500R
V.AMP.
R824 1.5R
P801 10K
R813 39K
V.SYNC
C134 0.1uF 63V
R139 18K
C133 4700PF 50V
C131 4n7F 50V
C132 1uF 25V
8V
P101 10K
H.SHIFT
R136 47K
D108
8V
33V
R140 3.9M
HOR.DRV
C130 10NF 50V
R138 470K
D111 1N4148
X102
4.433618MHz
C127 18PF 50V
C128 10uF 16V
D112 1N4148
C129 10NF 50V
R137 4.7R
R135 7.5K
R134 6.8K
8V
Q106 BC547B
R133 22K
AV
C125 4n7F 63V
R132 100K
C126 100NF 25V
B-Y OUT
R-Y OUT
R-Y IN
B-Y IN
S.DEC
S.DEC
S.OUT
TUN.T-O
ABC
TUN.AGC
IF.IN.
IF.IN
AFCOUT
VER.DRV
VER.R.O
VER.FB
DSCON.
SSCON.
FLYIN/B
H.DRV
S.SUP.
XTAL4.43
XTAL3.58
B.PH.DET
SUBOUT.S
B-YOUT
R-YOUT
B-YIN
R-YIN
B-YIN
H/S.CMP
C142 22NF 50V
8V
R145 1K
C141 2.2uF 16V
D101 1N4148
R144 5.6K
C140 10uF 16V
D100 1N4148
C138 220NF
U AGC
P102 10K
63V
C137 22NF 50V
C136 2.2uF 25V
F101
SAF38.9MS51P
AFC
C135 22NF 50V
C410 VOLT
R401 1K
I102
TDA4665
DELAY LINE
VP.DIG NC D.GND T.IN S.IN NC T.OUT TIN
-(B-Y)I -(B-Y)Q REF -(R-Y)Q -(R-Y)I A.GND VP.AN
C129 100NF 25V
C121 1NF 50V
C122 1NF 50V
C123 100NF 25V
C124 100NF 25V
5V1
R154 2.2R
R131 1K
R252 10K
R251 2.2R
C251 10uF 16V
C252 100NF +80-20
C253 0.1UF 63V
C254 0.22uF 63V
I251
TDA8395
SECAM
FR.REF TEST SUP. NC NC GND CL.REF PLL.REF
VD SNDC. NC NC NC NC -(B-Y) -(R-Y)
B-Y IN
R-Y IN
8V
FBAS
TV_VID
D130 1N4148
Q104 BC558
R130 10K
C145 220uF 16V
D11 6.2V
AV.VID
8V
D107 1N4148
R152 10K
R153 15K
8V
C830 VOLT
C807 7n2F VOLT
L602 50uH
R814 1K
L601 56uH
S601
(HORIZ.)
HOR.DEFL.
YOKE
D602 BYV95C
C808 470NF 250V
R808 4.7K
C515 1uF 250V
EHT
FOCUS
SCREEN
SSB
HEATER
+K
VERT.SUP
T602
HOR.DRV.
Q502 BUH515D
R805 39R
C804 680PF 1KV
C805 10uF 250V
+M
180V
D501 BYV95C
R807 5.6R
C806 470NF 250V
T601
H.S
R810 10K
C809 47NF 100V
R847 0R22
C811 1000PF 1KV
D603 BYV95C
R811 0R22
C812 470uF 35V
C813 22NF 500V
R845 3.3R
R812 8.2K
C814 100PF 500V
D13 9.1V
R813 39K
A R G B SHIFT
R135 7.5K
Q106 BC547B
R134 6.8K
R133 22K
8V
AV
R491 75R
AV.VID
C451 47uF 16V
R493
R453 4.7K
R455 8.2K
D451 1N4148
TV_VID
R492 470R
R494 1.8K
C452 47uF 16V
R452 33K
Q451 BC547B
R454 33K
Q452 BC547B
D452 1N4148
R456 2.2K
R457 100R
R460 220R
Q453 BC547B
R458 4.7K
L451 10UHJ
C453 180PF 50V
J451
VID-TXT
5V1
C454 100uF 16V
R461 3.3K
C458 1NF 50V
C456 15PF 50V
C457 8.2PF 50V
X451 27MHZ
L452 3.3UHJ
C459 0.1uF 63V
C460 0.1uF 63V
VIDEO
R462 27K
I451
SAA5254P
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20
VERT.PULSE
R468 8.2K
C474 JUMPER VOLT
5V1
Q454 BC547B
R467 22K
C462 0.1uF 63V
ODD/EVEN
R_IN
G_IN
B_IN
FB
D454 1N4148
D455 1N4148
D456 1N4148
D457 1N4148
R475 100R
R476 100R
R477 100R
R464 2.2K
R463 390R
R474 330R
C463 0.1uF 63V
C857 100uF 16V
SCL
SDA
8V
VIDEO
S451
SIMPLE TEXT
FOR MONO SECAM L/L'
FUR MONO SECAM L/L'
SW-SND
L/LPRIME
D260 1N4148
R265 100K
C264 0.22uF 63V
B/G-SND
Q274 BC547B
R264 100K
C270 0.22uF 63V
R294 100K
SYSB
R265 100K
R262 100K
D259 1N4148
R263 47K
C265 0.22uF 63V
R295 2K2
Q278 BC547B
C858 2u2F 16V
R293 18K
8V
D261 1N4148
AV
E.AUD
C261 2u2F 16V
J251
C263 10nF 50V
C262 100uF 16V
R254 4.7K
R256 4.7K
R256 4.7K
F251
L9453M
R253 47K
R255 10K
R257 22K
Q271 BC547B
Q272 BC547B
Q273 BC547B
D256 BAT85
D257 BAT85
IF2
R258 1.8K
C267 1nF 63V
C268 0.22uF 63V
I252
TDA9830
IFIN1 NC AGC REF NC AMOUT AMIN AFOUT
IFIN2 NC VP1 GND MUTE VP2 SWITCH EXTIN
C256 4.7uF 16V
C259 4.7uF 16V
C260 0.22uF 63V
C856 2u2F 16V
EX.AUD



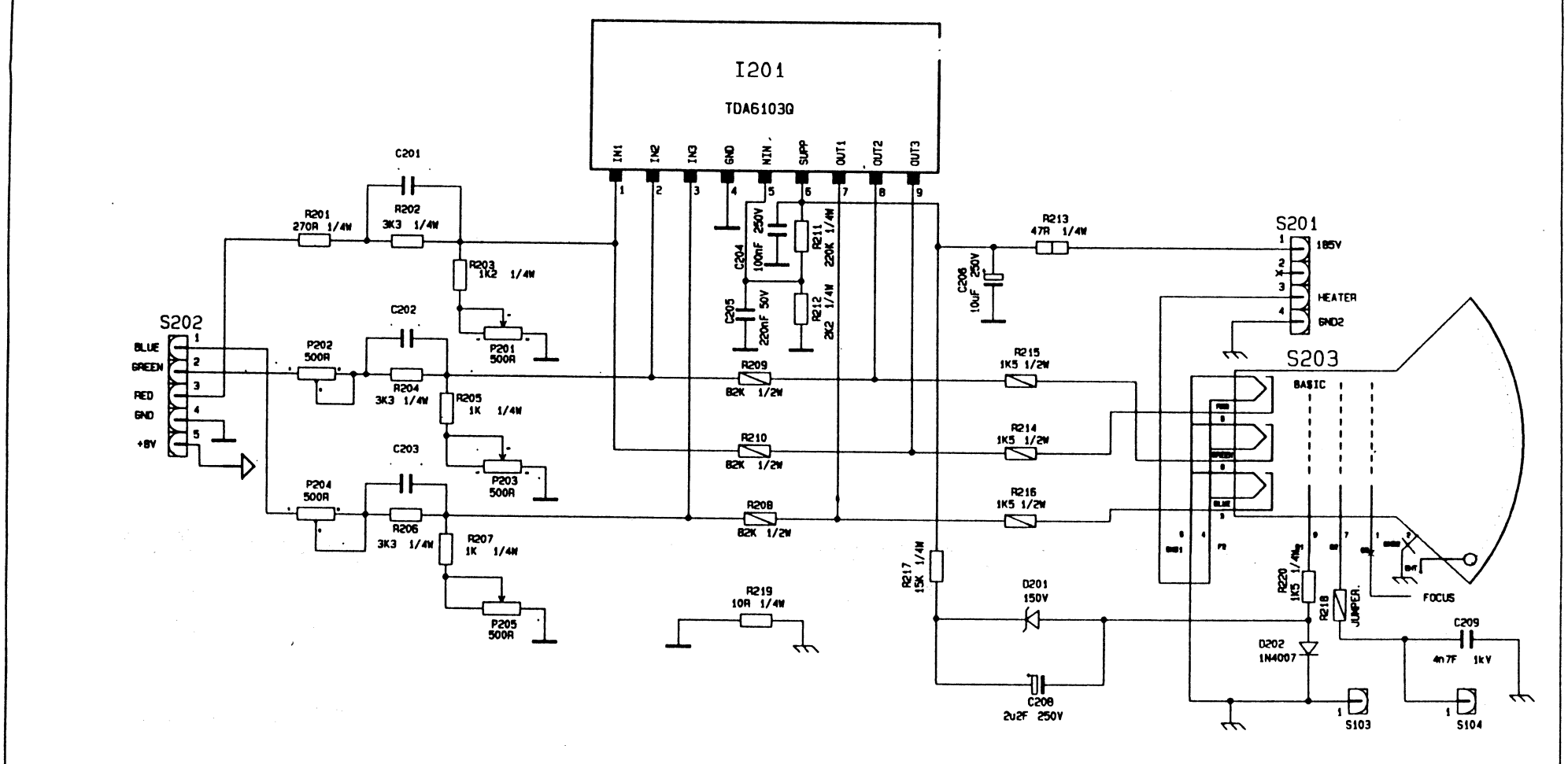
A2+NICAM L BOARD CIRCUIT DIAGRAM / A2+NICAM L BAUSTEIN SCHALTUNGSPLAN



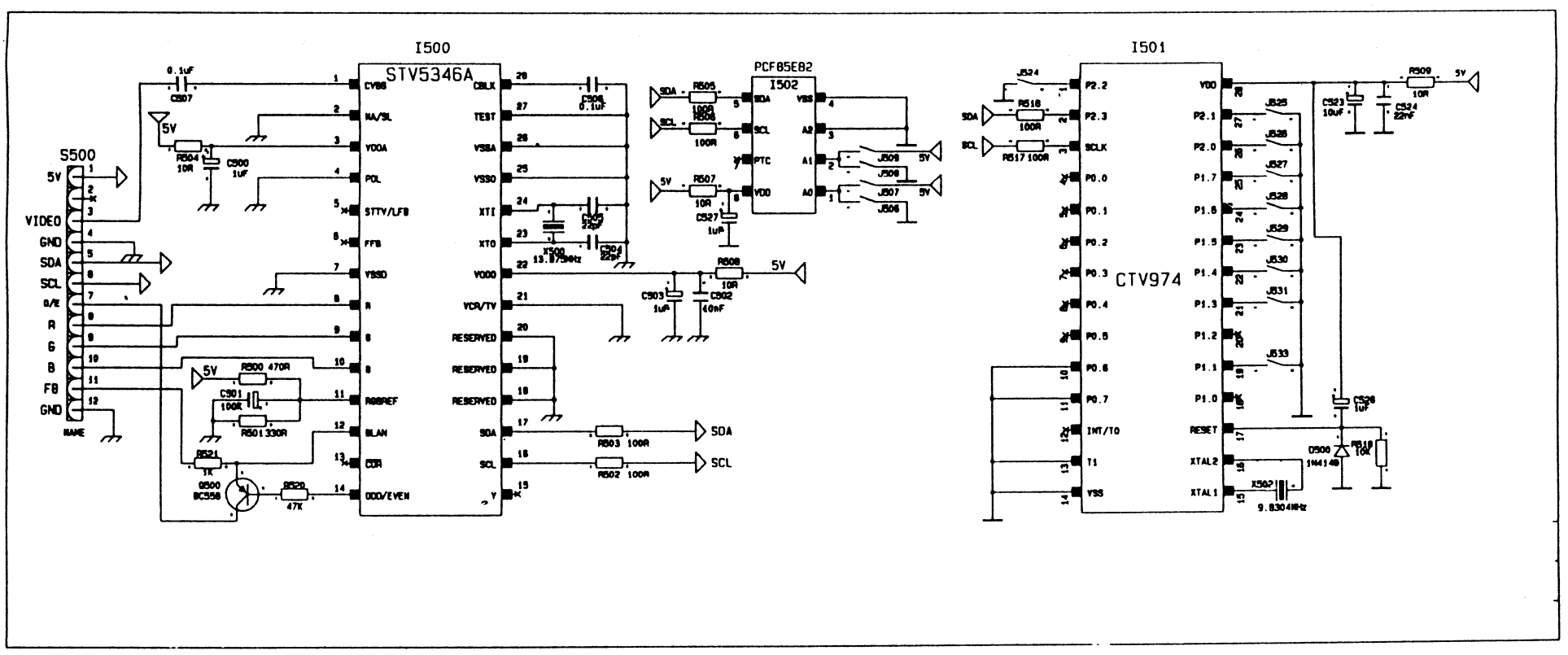
NICAM L BOARD CIRCUIT DIAGRAM / NICAM L BAUSTEIN SCHALTUNGSPLAN



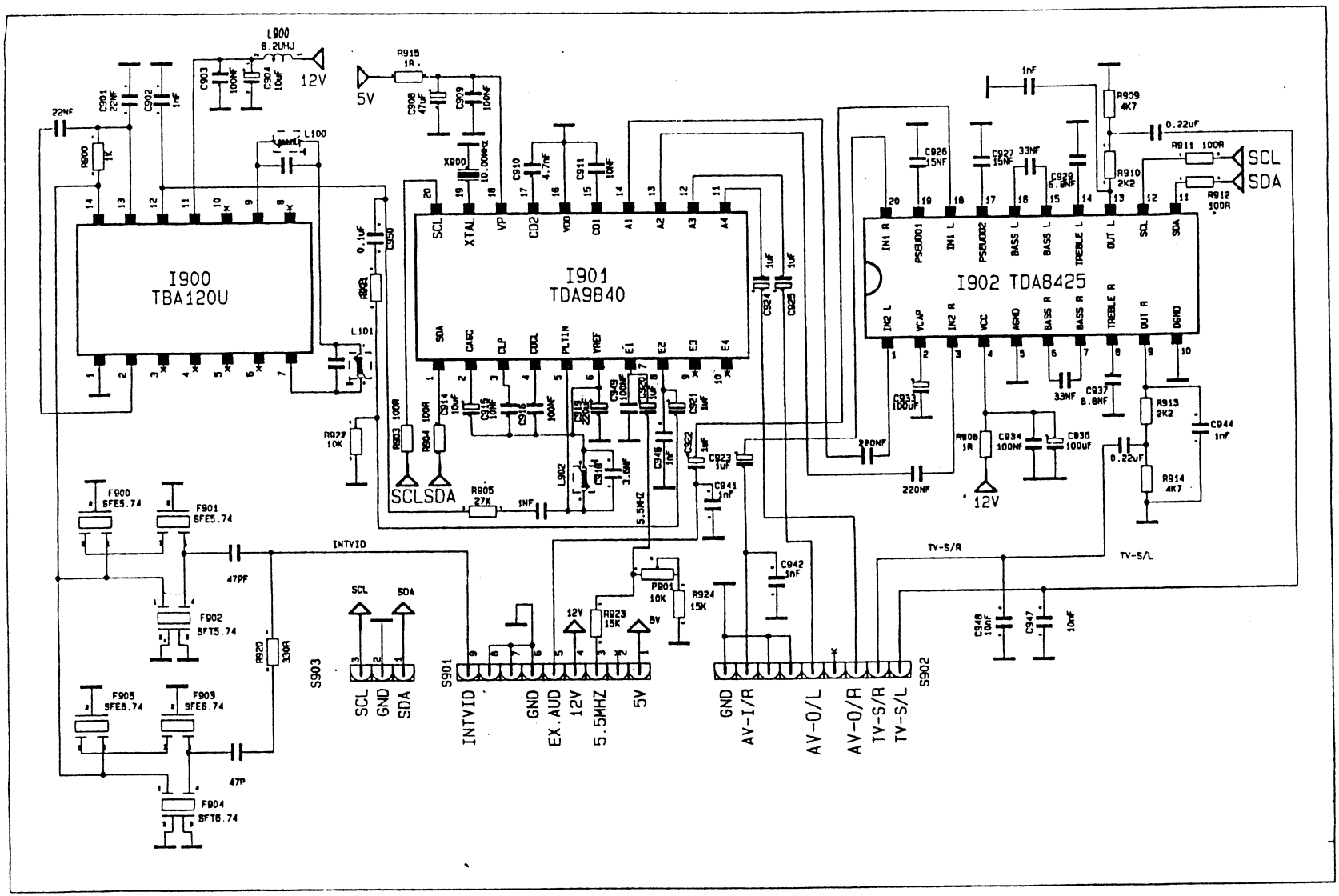
NICAM BOARD CIRCUIT DIAGRAM / NICAM BAUSTEIN SCHALTUNGSPLAN



CRT BOARD CIRCUIT DIAGRAM / CRT BAUSTEIN SCHALTUNGSPLAN



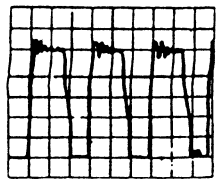
TELETEXT BOARD CIRCUIT DIAGRAM / TELETEXT BAUSTEIN SCHALTUNGSPLAN



GERMAN STEREO BOARD CIRCUIT DIAGRAM / GERMAN STEREO BAUSTEIN SCHALTUNGSPLAN

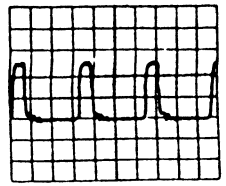
OSCILLOSCOPE SHAPES / OSZILLOGRAMME

1) 5 usn/div 100 volt/div



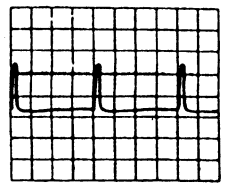
Drain of Q1

2) 20 usn/div 2volt/div



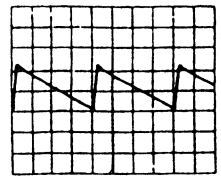
IC 301 pin 26

3) 5m sn/div 2volt/div



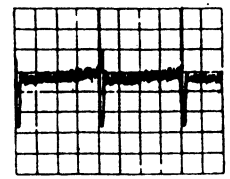
IC 301 pin 27

4) 5 msn/div 0,5 volt/div



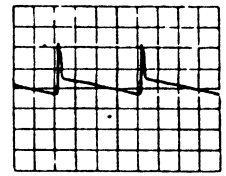
IC 101 pin 41

5) 5 msn/div 1 volt/div



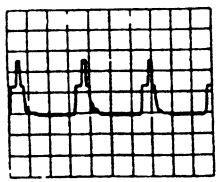
IC 601 pin 3

6) 5 msn/div 20 volt/div



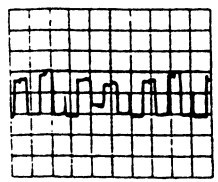
IC 601 pin 5

7) 20 usn/div 2 volt/div



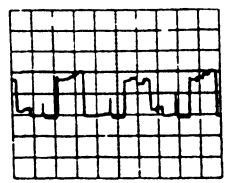
IC 101 pin 38

8) 20 usn/div 2 volt/div



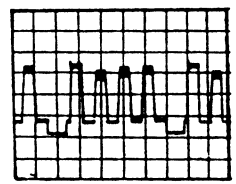
IC 101 pin 20

9) 20 usn/div 2 volt/div



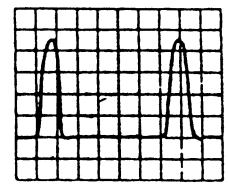
IC 101 pin 19

10) 10 usn/div 2 volt/div



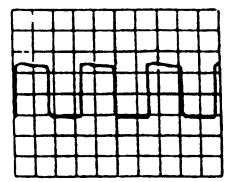
IC 101 pin 18

11) 10 usn/div 250 volt/div



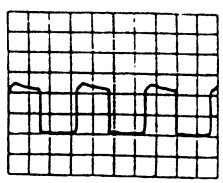
Collector of Q602

12) 20 usn/div 0.2 volt/div



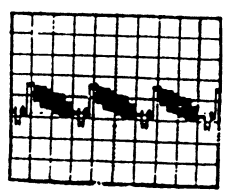
IC 101 pin 37

13) 20 usn/div 50 volt/div



Collector of Q601

14) 20 usn/div 1 volt/div



IC 101 pin 13

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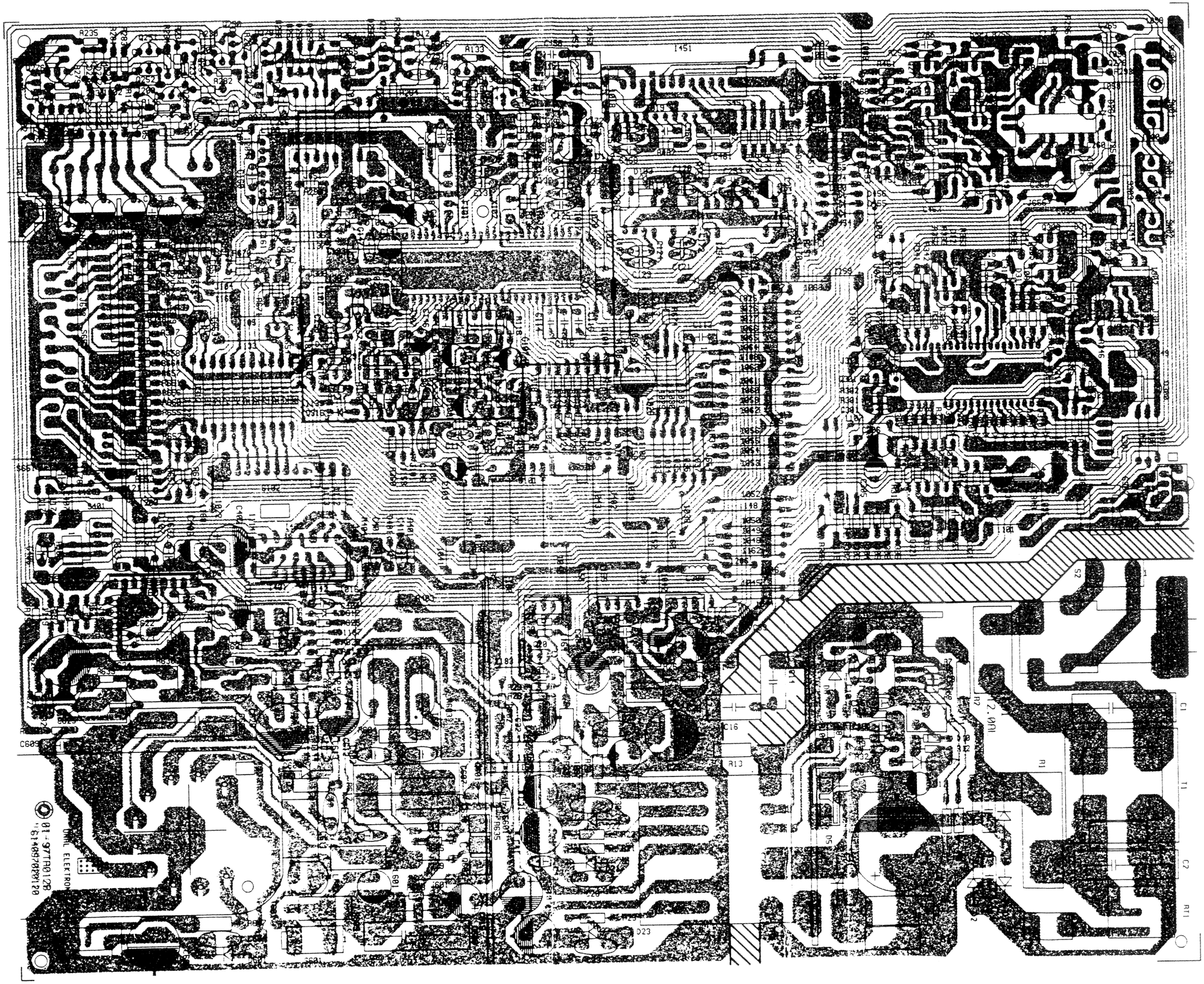
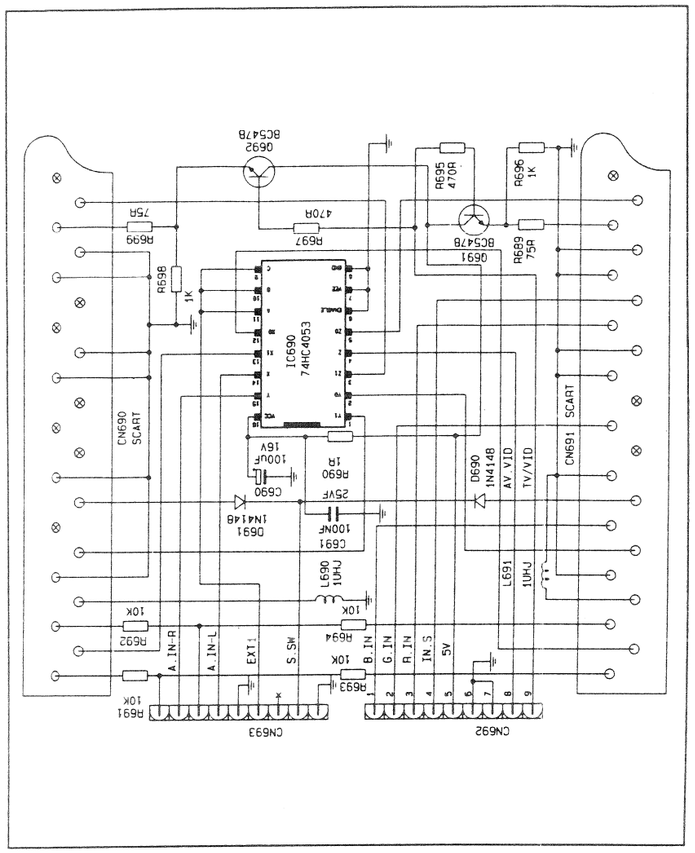
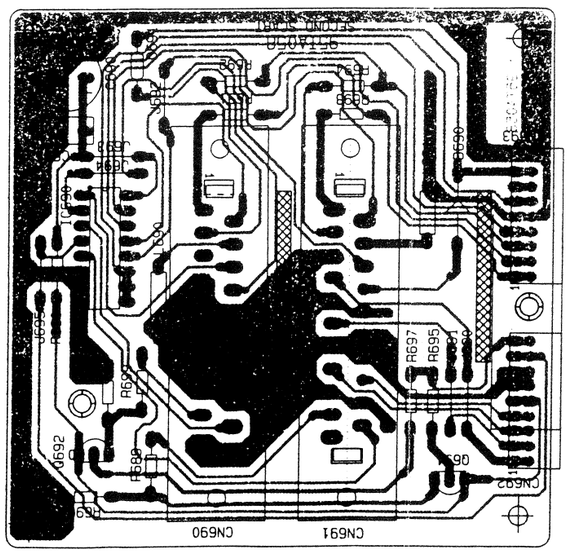
065 031 000 790



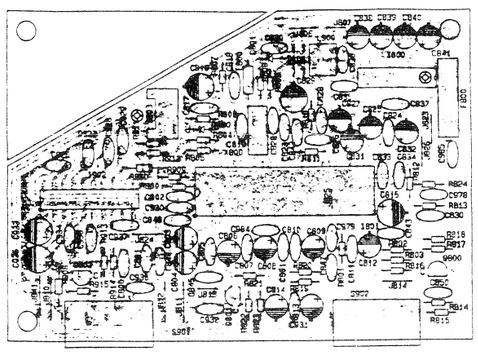
MAIN CHASSIS BOARD / CHASSISPLATE



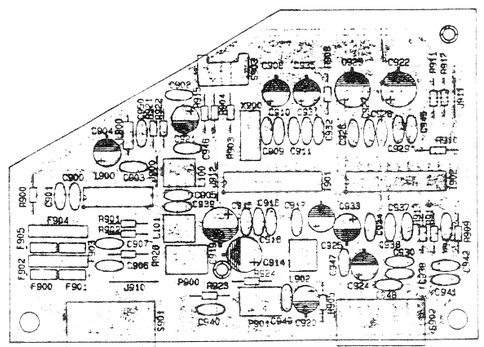
DOUBLE SCART BOARD CIRCUIT DIAGRAM / DOPPEL - SCART BAUSTEIN SCHALTUNGSPLAN



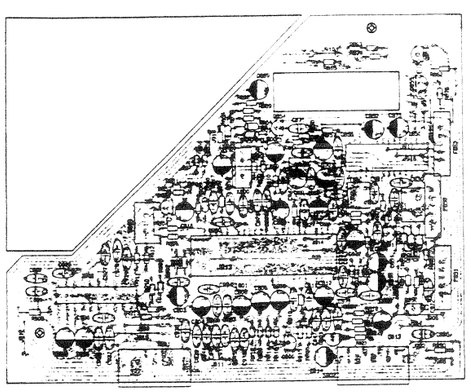
DOUBLE SCART BOARD / DOPPEL - SCART BAUSTEIN



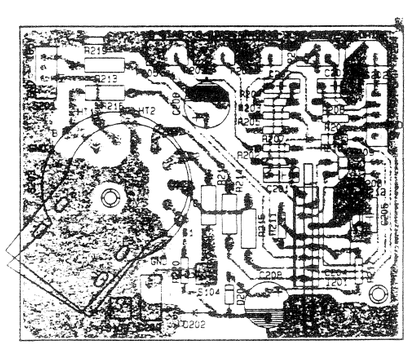
NICAM BOARD / NICAM BAUSTEIN



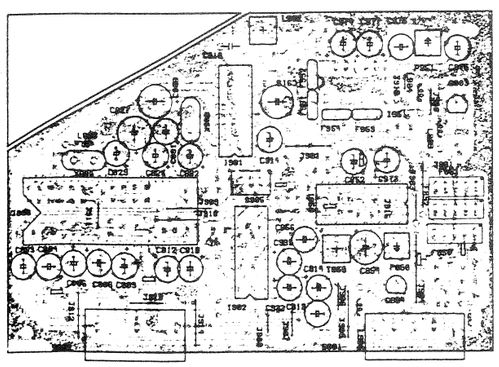
GERMAN STEREO BOARD / GERMAN STEREO BAUSTEIN



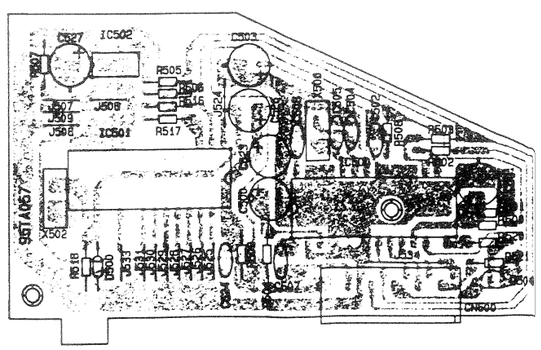
NICAM L BOARD / NICAM L BAUSTEIN



CRT BOARD / CRT BAUSTEIN



A2+NICAM L BOARD / A2+NICAM L BAUSTEIN



FASTEXT BOARD / FASTEXT BAUSTEIN